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Google Certified Professional – Cloud Architect (GCP)

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The Google Certified Professional - Cloud Architect (GCP) certification exam consists of multiple-choice questions that evaluate the candidate's knowledge and understanding of GCP. Professional-Cloud-Architect Exam is divided into different sections, and each section focuses on a specific area of GCP. Professional-Cloud-Architect exam covers topics such as GCP infrastructure, networking, security, data storage, data processing, and application development. To pass the exam, the candidate must score at least 70% on the exam.

Managing & Provisioning Solution Infrastructures

- Configure individual storage systems: the areas of focus should include data storage allocation; access management and security; data processing and compute provisioning; data lifecycle management and data retention; network configuration for the data latency and transfer;
- Configure network topologies: the examinees should have the ability to extend to hybrid and on-premises networking and

multi-Cloud environment that may entail GCP to GCP communication. It also requires their understanding of data protection and security;

- Configure compute systems: you should understand system provisioning; compute volatility configuration; container orchestration using Kubernetes; technology configuration for infrastructure provisioning; network configuration for the compute nodes.

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To be eligible for the Google Professional-Cloud-Architect certification exam, candidates must have at least three years of industry experience, including one year of designing and managing solutions using GCP. They should also have a strong understanding of GCP services, infrastructure, and security. Professional-Cloud-Architect Exam Tests the candidates' knowledge and skills in various areas, including designing and planning a GCP solution, managing and provisioning GCP resources, and optimizing GCP performance and cost.

Google Certified Professional - Cloud Architect (GCP) Sample Questions (Q208-Q213):

NEW QUESTION # 208

For this question, refer to the TerramEarth case study

Your development team has created a structured API to retrieve vehicle data. They want to allow third parties to develop tools for dealerships that use this vehicle event data. You want to support delegated authorization against this data. What should you do?

- A. Create secondary credentials for each dealer that can be given to the trusted third party.
- **B. Build or leverage an OAuth-compatible access control system.**
- C. Build SAML 2.0 SSO compatibility into your authentication system.
- D. Restrict data access based on the source IP address of the partner systems.

Answer: B

Explanation:

<https://cloud.google.com/appengine/docs/flexible/go/authorizing-apps>

https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#delegate_application_authorization_with_oauth2 Delegate application authorization with OAuth2 Cloud Platform APIs support OAuth 2.0, and scopes provide granular authorization over the methods that are supported. Cloud Platform supports both service-account and user-account OAuth, also called three-legged OAuth.

References: https://cloud.google.com/docs/enterprise/best-practices-for-enterprise-organizations#delegate_application_authorization_with_oauth2

<https://cloud.google.com/appengine/docs/flexible/go/authorizing-apps>

NEW QUESTION # 209

You want to ensure Dress4Win's sales and tax records remain available for infrequent viewing by auditors for at least 10 years.

Cost optimization is your top priority.

Which cloud services should you choose?

- **A. Google Cloud Storage Coldline to store the data, and gsutil to access the data.**
- B. Google Cloud Storage Nearline to store the data, and gsutil to access the data.
- C. Google Bigtable with US or EU as location to store the data, and gcloud to access the data.
- D. BigQuery to store the data, and a web server cluster in a managed instance group to access the data.

Google Cloud SQL mirrored across two distinct regions to store the data, and a Redis cluster in a managed instance group to access the data.

Answer: A

Explanation:

Explanation/Reference: <https://cloud.google.com/storage/docs/storage-classes>

NEW QUESTION # 210

Case Study: 2 - TerramEarth Case Study

Company Overview

TerramEarth manufactures heavy equipment for the mining and agricultural industries: About 80% of their business is from mining and 20% from agriculture. They currently have over 500 dealers and service centers in 100 countries. Their mission is to build products that make their customers more productive.

Company Background

TerramEarth formed in 1946, when several small, family owned companies combined to retool after World War II. The company cares about their employees and customers and considers them to be extended members of their family.

TerramEarth is proud of their ability to innovate on their core products and find new markets as their customers' needs change. For the past 20 years trends in the industry have been largely toward increasing productivity by using larger vehicles with a human operator.

Solution Concept

There are 20 million TerramEarth vehicles in operation that collect 120 fields of data per second.

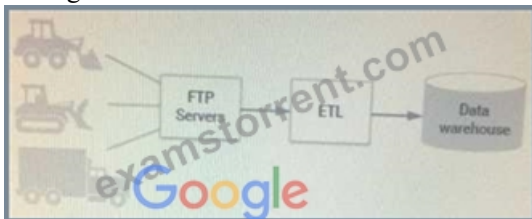
Data is stored locally on the vehicle and can be accessed for analysis when a vehicle is serviced.

The data is downloaded via a maintenance port. This same port can be used to adjust operational parameters, allowing the vehicles to be upgraded in the field with new computing modules.

Approximately 200,000 vehicles are connected to a cellular network, allowing TerramEarth to collect data directly. At a rate of 120 fields of data per second, with 22 hours of operation per day.

TerramEarth collects a total of about 9 TB/day from these connected vehicles.

Existing Technical Environment



TerramEarth's existing architecture is composed of Linux-based systems that reside in a data center. These systems *gzip* CSV files from the field and upload via FTP, transform and aggregate them, and place the data in their data warehouse. Because this process takes time, aggregated reports are based on data that is 3 weeks old.

With this data, TerramEarth has been able to preemptively stock replacement parts and reduce unplanned downtime of their vehicles by 60%. However, because the data is stale, some customers are without their vehicles for up to 4 weeks while they wait for replacement parts.

Business Requirements

- Decrease unplanned vehicle downtime to less than 1 week, without increasing the cost of carrying surplus inventory
- Support the dealer network with more data on how their customers use their equipment IP better position new products and services.
- Have the ability to partner with different companies-especially with seed and fertilizer suppliers in the fast-growing agricultural business-to create compelling joint offerings for their customers

CEO Statement

We have been successful in capitalizing on the trend toward larger vehicles to increase the productivity of our customers.

Technological change is occurring rapidly and TerramEarth has taken advantage of connected devices technology to provide our customers with better services, such as our intelligent farming equipment. With this technology, we have been able to increase farmers' yields by 25%, by using past trends to adjust how our vehicles operate. These advances have led to the rapid growth of our agricultural product line, which we expect will generate 50% of our revenues by 2020.

CTO Statement

Our competitive advantage has always been in the manufacturing process with our ability to build better vehicles for tower cost than our competitors. However, new products with different approaches are constantly being developed, and I'm concerned that we lack the skills to undergo the next wave of transformations in our industry. Unfortunately, our CEO doesn't take technology obsolescence

seriously and he considers the many new companies in our industry to be niche players. My goals are to build our skills while addressing immediate market needs through incremental innovations.

For this question refer to the TerramEarth case study. Which of TerramEarth's legacy enterprise processes will experience significant change as a result of increased Google Cloud Platform adoption.

- A. Data Center expansion, TCO calculations, utilization measurement
- B. Capacity planning, utilization measurement, data center expansion
- **C. Capacity planning, TCO calculations, opex/capex allocation**
- D. Opex/capex allocation, LAN changes, capacity planning

Answer: C

NEW QUESTION # 211

Your company is planning to perform a lift and shift migration of their Linux RHEL 6.5+ virtual machines. The virtual machines are running in an on-premises VMware environment. You want to migrate them to Compute Engine following Google-recommended practices. What should you do?

- A. 1. Perform an assessment of virtual machines running in the current VMware environment.
2. Create images of all disks. Import disks on Compute Engine.
3. Create standard virtual machines where the boot disks are the ones you have imported.
- B. 1. Define a migration plan based on the list of the applications and their dependencies.
2. Migrate all virtual machines into Compute Engine individually with Migrate for Compute Engine.
- **C. 1. Perform an assessment of virtual machines running in the current VMware environment.
2. Define a migration plan, prepare a Migrate for Compute Engine migration RunBook, and execute the migration.**
- D. 1. Perform an assessment of virtual machines running in the current VMware environment.
2. Install a third-party agent on all selected virtual machines.
3. Migrate all virtual machines into Compute Engine.

Answer: C

Explanation:

The framework illustrated in the preceding diagram has four phases:

* Assess. In this phase, you assess your source environment, assess the workloads that you want to migrate to Google Cloud, and assess which VMs support each workload.

* Plan. In this phase, you create the basic infrastructure for Migrate for Compute Engine, such as provisioning the resource hierarchy and setting up network access.

* Deploy. In this phase, you migrate the VMs from the source environment to Compute Engine.

* Optimize. In this phase, you begin to take advantage of the cloud technologies and capabilities.

NEW QUESTION # 212

Your company has a Google Cloud project that uses BigQuery for data warehousing. They have a VPN tunnel between the on-premises environment and Google Cloud that is configured with Cloud VPN. The security team wants to avoid data exfiltration by malicious insiders, compromised code, and accidental oversharing.

What should they do?

- A. Configure Private Google Access.
- **B. Configure VPC Service Controls and configure Private Google Access.**
- C. Configure Private Google Access for on-premises only.
- D. Perform the following tasks:
 - 1) Create a service account.
 - 2) Give the BigQuery JobUser role and Storage Reader role to the service account.
 - 3) Remove all other IAM access from the project.

Answer: B

Explanation:

Explanation

<https://cloud.google.com/vpc-service-controls/docs/overview>

VPC Service Controls improves your ability to mitigate the risk of data exfiltration from Google Cloud services such as Cloud

NEW QUESTION # 213

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